

Analog Module ASi: 4 Pt1000 inputs

Galvanic isolation to ASi

Profile 7.3 „Plug and Play“
as easy as digital ASi I/O

Protection class IP20



(figure similar)



Article no. BWU2481

The analog module has 4 Pt1000 inputs.

Transducers are connected via Combicon plug-in terminals. The transducers and ASi are galvanically isolated. Measured value conversion and data transmission to the host are asynchronous according to ASi profile 7.3.

The resolution of the analog values is 16 bits. The analog modules include 50 Hz filters and 60 Hz filters. These can be switched on optionally using the ASi parameters.

Article no.	BWU2481
General data	
Device type	Input
Connection	
Periphery connection	cage clamp terminals
ASi connection	cage clamp terminals
ASi	
Profile	S-7.3.E, ID1=F (default)
Address	Single address (up to 31)
Required Master profile	≥ M3
Since ASi specification	2.1
Operating voltage	30 V _{DC} (20 ... 31,6 V)
Max. current consumption	< 80mA
Input	
Number	4 x Pt100
Resolution	16 Bit/0,1°C
Range of value	-2000 ... +8500 dec.
Power supply of attached sensors	via ASi/external
Environment	
Applied standards	EN 60529 EN 61000-6-3 EN 61000-6-2
Operating altitude	max. 2000 m
Operating temperature	0°C ... +55 °C (up to max. +70 °C) ⁽¹⁾
Storage temperature	-20°C ... +85°C
Housing	plastic, housing for DIN-rail mounting
Pollution degree	2
Protection category	IP20
Voltage of insulation	≥ 500V
Dimensions (W / H / D) in mm	22,5 / 114 / 105

⁽¹⁾ Maximum ambient operating temperature +55 °C according UL certificate for the use in the USA and Canada

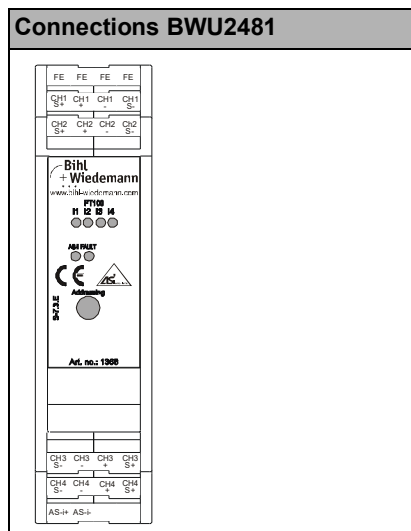
Programming

Bit	Bit assignment			
	Input			
	P3	P2	P1	P0
BWU2481	0: 4 wire-mode 1: 2 wire-mode	A peripheral fault can be released through channel X (bit combination P1 and P2)		0: 60 Hz filter in A/D converter active 1: 50 Hz filter in A/D converter active

Combination of input bits P1 and P2					
BWU2481					
peripheral fault released through channel					
P1	P2	1	2	3	4
0	0	yes	no	no	no
0	1	yes	yes	no	no
1	0	yes	yes	yes	no
1	1	yes	yes	yes	yes

Programming notice:				
Article no.	ID-Code	ID1-Code	ID2-Code	IO-Code
BWU2481	3 _{hex}	ID1 = F (default)	E _{hex}	7 _{hex}

UL-specifications (UL508)	
BWU2481	
External protection	An isolated source with a secondary open circuit voltage of $\leq 30 V_{DC}$ with a 3 A maximum over current protection. Over current protection is not required when a Class 2 source is employed.
In general	UL mark does not provide UL certification for any functional safety rating or aspects of the above devices.



LEDs:	
LED PWR (green)	ASi voltage o.k.
LED FAULT (red)	communication error or peripheral fault
LED I1 ... I4 (yellow)	state of channel I1, I2, I3, I4

Measuring range:
-200 °C ... +850 °C

The measuring sensors and ASi are galvanically separated.

Accessories:

- ASi-5/ASi-3 Address Programming Device (art. no. BW4708)